

Control and Cybernetics

vol. **35** (2006) No. 4

Table of contents of volume 35 (2006)

AUTHOR, title, pages

Issue 1:

Foreword to the special issue on “Novel approaches and soft methodologies in Geographic Information Systems: a Decision Support perspective”, 5-7.

P.B. KEENAN: Spatial Decision Support Systems: A coming of age, 9-27.

R. LADNER, F. PETRY, E. WARNER, K. GUPTA: Using Web Services to enhance Geographic Information Systems, 29-46.

J. HORAK, J. UNUCKA, J. STROMSKY, V. MARSIK, A. ORLIK: TRANSCAT DSS architecture and modelling services, 47-71.

A. SCHMITZ, A. MORRIS: Modeling and manipulating fuzzy regions: strategies to define the topological relation between two fuzzy regions, 73-95.

N. VAN DE WEGHE, A.G. COHN, G. DE TRÉ, P. DE MAEYER: A qualitative trajectory calculus as a basis for representing moving objects in Geographical Information Systems, 97-119.

P.V. GORSEVSKI, P. JANKOWSKI, P.E. GESSLER: Heuristic approach for mapping landslide hazard integrating fuzzy logic with analytic hierarchy process, 121-146.

J. VERSTRAETE, G. DE TRÉ, A. HALLEZ: Bitmap based structures for the modeling of fuzzy entities, 147-164.

G. VERT, A. MORRIS, J.S. HEATON: Decision support based methods to facilitate 3D volumetric locking in a new peer to peer based spatial database system, 165-194.

Issue 2:

A. NIEDERLIŃSKI: Professor Zdzisław Bubnicki in my memory, 197-201.

P. FULMAŃSKI, A. NOWAKOWSKI: Dual dynamic approach to shape optimization, 205-218.

J. LOVIŠEK, J. KRÁLIK: Optimal control for elasto-orthotropic plate, 219-278.

T. BANEK, E. KOZŁOWSKI: Adaptive control of system entropy, 279-289.

J-D. CHEN: Stability criteria for large-scale time-delay systems: the LMI approach and the Genetic Algorithms, 291-301.

J. ROY: Learning in games with bounded memory, 303-333.

A. KONDRATIUK-JANYSKA, M. KAŁUSZKA: Assets/liabilities portfolio immunization as an optimization problem, 335-349.

P. HOLNICKI: On the real-time emission control – case study application, 351-367.

L. KLUKOWSKI: Tests for relation type - equivalence or tolerance - in a finite

set of elements, 369-384.

R. KALICKA, D. BOCHEN: A new OSS design based on parameter sensitivity to changes in measurements, 385-406.

L. KNOPIK: Characterization of a class of lifetime distributions, 407-414.

A. NIEWIADOMSKI, J. OCHELKA, P.S. SZCZEPANIAK: Interval-valued linguistic summaries of databases, 415-443.

W.K.M. BRAUERS, E.K. ZAVADSKAS: The MOORA method and its application to privatization in a transition economy, 445-469.

L. USTINOVICHUS, V. PODVEZKO, R. GINEVICIUS: A method of determining risk zones of investment in real estate, 471-486.

Y. UEMURA: Fuzzy satisfactory evaluation method for covering the ability comparison in the context of DEA efficiency, 487-495.

Book reviews

K. Malanowski: "Variational analysis and generalized differentiation. I Basic Theory, II Applications" by Boris S. Mordukhovich, 497-499.

A. Myśliński: "Variational Methods in Shape Optimization Problems" by Dorin Bucur and Giuseppe Butazzo, 501-503.

D. Dąbrowska: "Approximation Theory from Taylor Polynomials to Wavelets" by Ole Christensen and Khadija L. Christensen, 505.

Issue 3:

M. SNIEDOVICH, A. LEW: Preface, 509.

M. SNIEDOVICH, A. LEW: Dynamic Programming: an overview, 513-533.

J. HARTMAN, T.C. PERRY: Approximating the solution of a dynamic, stochastic multiple knapsack problem, 535-550.

M. SNIEDOVICH, S. VOSS: The corridor method: a dynamic programming inspired metaheuristic, 551-578.

Ch. WILBAUT, S. HANAFI, A. FRÉVILLE, S. BALEV: Tabu search: global intensification using dynamic programming, 579-598.

M. SNIEDOVICH: Dijkstra's algorithm revisited: the dynamic programming connexion, 599-620.

A. LEW: Canonical greedy algorithms and dynamic programming, 621-643.

A.B. PIUNOVSKIY: Dynamic programming in constrained Markov decision processes, 645-660.

A.P. TERESO, J.R.M. MOTA, R.J.T. LAMEIRO: Adaptive resource allocation to stochastic multimodal projects: a distributed platform implementation in Java, 661-686.

H. MAUCH: DP2PN2Solver: A flexible dynamic programming solver software tool, 687-702.

M. WERNER: A timed Petri net framework to find optimal IRIS schedules, 703-719.

L. POPOVA-ZEUGMANN: Time Petri nets state space reduction using dynamic programming, 721-748.

Book reviews

L. Klukowski: "Advances in Ranking and Selection, Multiple Comparisons, and reliability: Methodology and Applications" by N. Balakrishnan, N. Kannan, and H. N. Nagaraja, eds., 749-756.

P. Nowak:

"Statistical Data Analysis Based on the L1-Norm and Related Methods" by Y. Dodge, ed., 757-760.

I. Pawłow:

"Nonlinear Partial Differential Equations with Applications" by Tomáš Roubíček, 761.

Issue 4:

Z. BARTOSIEWICZ, E. GIREJKO: Preface, 765.

Z. BARTOSIEWICZ, E. PAWŁUSZEWICZ: Realizations of linear control systems on time scales, 769-786.

P. BETTIOL: A deterministic approach to the Skorokhod problem, 787-802.

A.L. DAWIDOWICZ, A. POSKROBKO: On asymptotic behaviour of the dynamical systems generated by von Foerster-Lasota equations, 803-813.

E. GIREJKO, Z. BARTOSIEWICZ: Viability and generalized differential quotients, 815-829.

P.D.F. GOUVEIA, D.F.M. TORRES, E.A.M. ROCHA: Symbolic computation of variational symmetries in optimal control, 831-849.

D. JANCZAK, Y. GRISHIN: State estimation of linear dynamic system with unknown input and uncertain observation using dynamic programming, 851-862.

J. JORDAN: Discrete-time control systems on homogeneous spaces: partition property, 863-871.

A.B. MALINOWSKA: Nonessential objective functions in linear multiobjective optimization problems, 873-880.

C.S. MOREIRA: Singularities of the stationary domain for polydynamical systems, 881-886.

D. MOZYRSKA, Z. BARTOSIEWICZ: Dualities for linear control differential systems with infinite matrices, 887-904.

T. MULLARI, Ü. KOTTA, S. NÖMM, M. TÖNSO: Realization of nonlinear composite systems, 905-921.

Ch. PRIEUR, E. TRÉLAT: Hybrid robust stabilization in the Martinet case, 923-945.

E.A.M. ROCHA, D.F.M. TORRES: Quadratures of Pontryagin extremals for optimal control problems, 947-963.

C.J. SILVA, D.F.M. TORRES: Two-dimensional Newton's problem of minimal resistance, 965-975.

M. WYRWAS: Multiobservers and their application to output stabilization, 977-995.

Z. ZACZKIEWICZ, V. MARCHENKO: Observability of small solutions of linear differential-algebraic systems with delays, 997-1013.

Table of contents of volume 35 (2006), 1015-1018.

Alphabetical list of contributors of volume 35 (2006), 1019-1021.

The list of volume's referees, 1023-1025.

Control and Cybernetics

vol. **35** (2006) No. 4

Alphabetical list of contributors of volume 35 (2006)
FIRST AUTHOR, title, issue number, pages

- T. BANEK, E. KOZŁOWSKI: Adaptive control of system entropy, 2, 279-289.
- Z. BARTOSIEWICZ, E. PAWŁUSZEWICZ: Realizations of linear control systems on time scales, 4, 769-786.
- P. BETTIOL: A deterministic approach to the Skorokhod problem, 4, 787-802.
- W.K.M. BRAUERS, E.K. ZAVADSKAS: The MOORA method and its application to privatization in a transition economy, 2, 445-469.
- J-D. CHEN: Stability criteria for large-scale time-delay systems: the LMI approach and the Genetic Algorithms, 2, 291-301.
- A.L. DAWIDOWICZ, A. POSKROBKO: On asymptotic behaviour of the dynamical systems generated by von Foerster-Lasota equations, 4, 803-813.
- P. FULMAŃSKI, A. NOWAKOWSKI: Dual dynamic approach to shape optimization, 2, 205-218.
- E. GIREJKO, Z. BARTOSIEWICZ: Viability and generalized differential quotients, 4, 815-829.
- P.V. GORSEVSKI, P. JANKOWSKI, P.E. GESSLER: Heuristic approach for mapping landslide hazard integrating fuzzy logic with analytic hierarchy process, 1, 121-146.
- P.D.F. GOUVEIA, D.F.M. TORRES, E.A.M. ROCHA: Symbolic computation of variational symmetries in optimal control, 4, 831-849.
- J. HARTMAN, T.C. PERRY: Approximating the solution of a dynamic, stochastic multiple knapsack problem, 3, 535-550.
- P. HOLNICKI: On the real-time emission control – case study application, 2, 351-367.
- J. HORAK, J. UNUCKA, J. STROMSKY, V. MARSIK, A. ORLIK: TRANSCAT DSS architecture and modelling services, 1, 47-71.
- D. JANCZAK, Y. GRISHIN: State estimation of linear dynamic system with unknown input and uncertain observation using dynamic programming, 4, 851-862.
- J. JORDAN: Discrete-time control systems on homogeneous spaces: partition property, 4, 863-871.
- R. KALICKA, D. BOCHEN: A new OSS design based on parameter sensitivity to changes in measurements, 2, 385-406.
- P.B. KEENAN: Spatial Decision Support Systems: A coming of age, 1, 9-27.
- L. KLUKOWSKI: Tests for relation type - equivalence or tolerance - in a finite set of elements, 2, 369-384.
- L. KNOPIK: Characterization of a class of lifetime distributions, 2, 407-414.

- A. KONDRATIUK-JANYSKA, M. KAŁUSZKA: Assets/liabilities portfolio immunization as an optimization problem, 2, 335-349.
- R. LADNER, F. PETRY, E. WARNER, K. GUPTA: Using Web Services to enhance Geographic Information Systems, 1, 29-46.
- A. LEW: Canonical greedy algorithms and dynamic programming, 3, 621-643.
- J. LOVIŠEK, J. KRÁLIK: Optimal control for elasto-orthotropic plate, 2, 219-278.
- A.B. MALINOWSKA: Nonessential objective functions in linear multiobjective optimization problems, 4, 873-880.
- H. MAUCH: DP2PN2Solver: A flexible dynamic programming solver software tool, 3, 687-702.
- C.S. MOREIRA: Singularities of the stationary domain for polydynamical systems, 4, 881-886.
- D. MOZYRSKA, Z. BARTOSIEWICZ: Dualities for linear control differential systems with infinite matrices, 4, 887-904.
- T. MULLARI, Ü. KOTTA, S. NÖMM, M. TÖNSO: Realization of nonlinear composite systems, 4, 905-921.
- A. NIEWIADOMSKI, J. OCHELKA, P.S. SZCZEPANIAK: Interval-valued linguistic summaries of databases, 2, 415-443.
- A.B. PIUNOVSKIY: Dynamic programming in constrained Markov decision processes, 3, 645-660.
- L. POPOVA-ZEUGMANN: Time Petri nets state space reduction using dynamic programming, 3, 721-748.
- Ch. PRIEUR, E. TRÉLAT: Hybrid robust stabilization in the Martinet case, 4, 923-945.
- E.A.M. ROCHA, D.F.M. TORRES: Quadratures of Pontryagin extremals for optimal control problems, 4, 947-963.
- J. ROY: Learning in games with bounded memory, 2, 303-333.
- A. SCHMITZ, A. MORRIS: Modeling and manipulating fuzzy regions: strategies to define the topological relation between two fuzzy regions, 1, 73-95.
- C.J. SILVA, D.F.M. TORRES: Two-dimensional Newton's problem of minimal resistance, 4, 965-975.
- M. SNIEDOVICH: Dijkstra's algorithm revisited: the dynamic programming connexion, 3, 599-620.
- M. SNIEDOVICH, A. LEW: Dynamic Programming: an overview, 3, 513-533.
- M. SNIEDOVICH, S. VOSS: The corridor method: a dynamic programming inspired metaheuristic, 3, 551-578.
- A.P. TERESO, J.R.M. MOTA, R.J.T. LAMEIRO: Adaptive resource allocation to stochastic multimodal projects: a distributed platform implementation in Java, 3, 661-686.
- Y. UEMURA: Fuzzy satisfactory evaluation method for covering the ability comparison in the context of DEA efficiency, 2, 487-495.
- L. USTINOVICHUS, V. PODVEZKO, R. GINEVICIUS: A method of determining risk zones of investment in real estate, 2, 471-486.

-
- N. VAN DE WEGHE, A.G. COHN, G. DE TRÉ, P. DE MAEYER: A qualitative trajectory calculus as a basis for representing moving objects in Geographical Information Systems, 1, 97-119.
- J. VERSTRAETE, G. DE TRÉ, A. HALLEZ: Bitmap based structures for the modeling of fuzzy entities, 1, 147-164.
- G. VERT, A. MORRIS, J.S. HEATON: Decision support based methods to facilitate 3D volumetric locking in a new peer to peer based spatial database system, 1, 165-194.
- M. WERNER: A timed Petri net framework to find optimal IRIS schedules, 3, 703-719.
- Ch. WILBAUT, S. HANAFI, A. FRÉVILLE, S. BALEV: Tabu search: global intensification using dynamic programming, 3, 579-598.
- M. WYRWAS: Multiobservers and their application to output stabilization, 4, 977-995.
- Z. ZACZKIEWICZ, V. MARCHENKO: Observability of small solutions of linear differential-algebraic systems with delays, 4, 997-1013.

Control and Cybernetics

vol. **35** (2006) No. 4

The list of volume's referees

The list contains the names, in alphabetical order, of the referees having reviewed papers published in volume 35 (2006) of *Control & Cybernetics*, as well as papers, which have been withdrawn or rejected in the same period of time. The Editors would like to thank in a particular manner the referees, who have reviewed in this period more than one paper for the journal.

Rafał ANGRYK (USA)
Thomas ARCHIBALD (United Kingdom)
Denis ARZELIER (France)
Viorel BARBU (Romania)
Zbigniew BARTOSIEWICZ (Poland)
Martin BENDSOE (Denmark)
Piernicola BETTIOL (Italy)
Gloria BORDOGNA (Italy)
Allan BORODIN (Canada)
Karin BOUCHARD (France)
Jerzy BURIAK (Poland)
Hanna BURY (Poland)
Rita De CALUWE (Belgium)
Francesca CERAGIOLI (Italy)
Monique CHYBA (USA)
Sharon CURTIS (United Kingdom)
Djordje S. DJUKIC (Serbia)
Ludostław DRELICHOWSKI (Poland)
K. H. V. DURGA RAO (India)
Deniz ERDOGMUS (USA)
Halina FRANKOWSKA (France)
Ewa GIREJKO (Poland)
Joao Manoel GOMES DA SILVA (Brazil)
Thomas HANNE (Germany)
Joseph HARTMAN (USA)
Seiichi IWAMOTO (Japan)
Andrzej JAKUBOWSKI (Poland)
Piotr JANKOWSKI (USA)
Frederic JEAN (France)
Philippe JOUAN (France)
Ignacy KALISZEWSKI (Poland)

Bernd KAWOHL (Germany)
Jae-Jun KIM (USA)
Jerzy KLAMKA (Poland)
Edward KORCZAK (Poland)
Jacek KORONACKI (Poland)
Ulle KOTTA (Finland)
Wiesław KRAJEWSKI (Poland)
Lech KRUSŃ (Poland)
Mirosław KWIESIELEWICZ (Poland)
Irena LASIECKA (USA)
Günter LEUGERIG (Germany)
Art LEW (USA)
William G. LITVINOV (Germany)
Jean-Jacques LOISEAU (France)
Milan MARES (Czechia)
Holger MAUCH (USA)
Jerry MENDEL (USA)
Jacek MIEKISZ (Poland)
Piotr MORMUL (Poland)
Ashley MORRIS (USA)
Sanjeev NAGULESWARAN (New Zealand)
Zbigniew NAHORSKI (Poland)
Piotr NOWAK (Poland)
Włodzimierz OGRYCZAK (Poland)
James B. ORLIN (USA)
Jan W. OWSIŃSKI (Poland)
Allan C. PETERSON (USA)
Don PETKOV (USA)
Frederic PETRY (USA)
Georg PFLUG (Austria)
Benedetto PICCOLI (Italy)
Sabine PICKENHAIN (Germany)
Louchka POPOVA-ZEUGMANN (Germany)
Christophe PRIEUR (France)
Luc PRONZATO (France)
Witold RESPONDEK (France)
Ludovic RIFFORD (France)
Gerhard SCHOEN (Switzerland)
David K. SMITH (United Kingdom)
Moshe SNIEDOVICH (Australia)
Honorata SOSNOWSKA (Poland)
Thomas SUDKAMP (USA)
Robert SUSMAGA (Poland)
Krzysztof SZAJOWSKI (Poland)

Hideo TANAKA (Japan)
Robert E. TARJAN (USA)
Krzysztof TCHOŃ (Poland)
Karl TOMASETH (Italy)
Delfim F. Marado TORRES (Portugal)
Emmanuel TRÉLAT (France)
Junzo WATADA (Japan)
Matthias WERNER (Germany)
Thomas WHALEN (USA)
Sławomir ZADROŻNY (Poland)
A. ZINNOBER (United Kingdom)
Andrzej ZIÓŁKOWSKI (Poland)
Enrique ZUAZUA (Spain)